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WINSTON HSU, NO. 41526 8064986673

T-817 P01/12 U-009

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OFFICIAL

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APR 26 2004

FROM: Winston Hsu, PATENT AGENT, REG. NO. : 41,526

SERIAL NO.: 10/064,215

ATTORNEY DOCKET NO.: VIAP0029USA

SUBJECT: INFORMATION DISCLOSURE STATEMENT

TOTAL PAGES: 12 PAGES (INCLUDING COVER PAGE)

Winston Hsu 2004/04/26

VIAP0029USA0_D1_1

OFFICIAL**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Jyh-Fong Lin,
5 Hsin-Chieh Lin,
Yi-Bin Hsieh

Filing Date: 06/21/2002 Art Unit: 2839

Application Number: 10/064,215 Docket No.: VIAP0029USA

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APR 26 2004

10 Title: CLOCK AND DATA RECOVERY CIRCUIT AND RELATED METHODS

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

15

Subject: Information disclosure statement Under 37C.F.R. §1.56
and 37C.F.R. §1.97(b).

Dear Sir/Madam:

20

This is an Information Disclosure Statement in accordance with the duty
to disclose information material to patentability under 37 C.F.R. §1.56.
Applicants wish to make of record the documents listed on the accompanying
form PTO/SB/08. It is respectfully requested that the Examiner initials the
25 cited reference on the form and that it be made of record in the application
and that a copy of the initialed form be sent to Applicants with the next
communication from the Examiner.

Since the information disclosure statement is filed before the mailing of
30 a first Office action on the merits, the requirement set forth in §1.97(b) is
satisfied. The cited article contained in the information disclosure statement
was cited in communications from the State Intellectual Property Office of
the PROC (SIPO) on Jan. 9, 2004. Applicants sincerely hope that the
examiner can consider the items contained in the information disclosure
35 statement.

According to the requirement set forth in 37C.F.R. §1.98 and M.P.E.P. 609 (8th edition, Aug. 2001), the applicant is submitting a copy of the reference cited by the SIPO ("A Clock and Data Recovery Circuit for 10-Mb/s and 100-Mb/s Ethernet", WANG Ruo-peng, LI Shu-guang, ZHENG Zeng-yu, State 5 Key Laboratory of ASIC and Systems, Fudan University, Shanghai 200433, P. R. China, Chinese Publication No. 1004-3365(2002)04-0308-04) and a concise explanation of the relevance in this application hereinafter.

As disclosed in the cited article, a combination of a charge pump together 10 with a resistor R and two capacitors C1 and C2 shown in Fig.5 is illustrated, and related operation of the data recovery circuit is described. Referring to Fig.5 of the cited art, the combination of a charge pump together with a resistor R and two capacitors C1 and C2 functions as a combination of the charge pump 20 and a filter 24 shown in Fig.1 of the present application.

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Claim 1 of the present application is repeated here for reference:

"1. A data recovery circuit for generating an output signal that is synchronized with an input signal; the data recovery circuit comprising:
20 a charge pump for generating a charging current according to a phase difference between the input signal and the output signal;
a first filter electrically connected to the charge pump for generating an output voltage corresponding to the charging current;
25 an oscillator for adjusting a phase or frequency of the output signal according to a voltage;
a switch circuit electrically connected between the first filter and the oscillator for controlling the electrical connection between the first filter and the oscillator; and
30 a second filter electrically connected between the switch circuit and the oscillator for adjusting the output voltage of the first filter;
wherein when the charge pump is operating, the switch circuit disconnects the first filter from the oscillator, and when the charge pump stops operating, the switch circuit connects the first 35 filter and the oscillator such that the oscillator adjusts the

frequency or phase of the output signal according to the output voltage of the first filter."

- Compared with the cited art, claim 1 of the present application discloses
- 5 a data recovery circuit 30 having a switch circuit 48, wherein when the charge pump 40 is operating, the switch circuit 48 disconnects the first filter 44 from the oscillator 46, and when the charge pump 40 stops operating, the switch circuit 48 connects the first filter 44 and the oscillator 46. However, the cited art fails to teach or disclose a first filter and
- 10 a switch circuit used for disconnecting the first filter from an oscillator.

Since claim 1 of the present application is substantially different from the cited art, claims 2-3 dependent on claim 1 are sure to be different from the cited art. In addition, claim 4 is a driving method corresponding to the data recovery circuit of claim 1. Therefore, claim 4 of the present application is also different from the cited art. Claim 5 is dependent on claim 4, and it is substantially different from the cited art, too.

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Respectfully Submitted,

25



Date:

4/26/2004

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(Please contact me by e-mail if you need a telephone communication and I will return your call promptly.)

PTO/SB/088 (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/064,215
				Filing Date	06/21/2002
				First Named Inventor	Jyh-Fong Lin
				Group Art Unit	2839
				Examiner Name	
(use as many sheets as necessary)				Attorney Docket Number	VIAP0029USA
Sheet	1	of	1		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Signature		Date Considered	
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***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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each submitted paper.

APPLICATION NUMBER: 10/064,215**PAPERS INCLUDED:**

(1) Transmittal Form	1 PAGE
(2) Fee Transmittal	1 PAGE
(3) Information Disclosure Statement	8 PAGES

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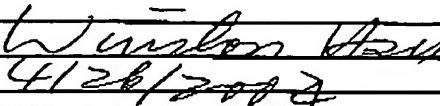
Total Number of Pages In This Submission

Application Number	10/084,215
Filing Date	06/21/2002
First Named Inventor	Jyn-Fong Lin
Art Unit	2839
Examiner Name	
Total Number of Pages In This Submission	10
Attorney Docket Number	VIAPO029USA

ENCLOSURES (Check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
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<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
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<input type="checkbox"/> Response to Missing Parts/Incomplete Application		Remarks
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Winston Hsu, Reg. No.: 41,526
Signature	
Date	4/26/2004

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$0.00)

Complete if Known

Application Number	10/064,215
Filing Date	06/21/2002
First Named Inventor	Jyh-Fong Lin
Examiner Name	
Art Unit	2839
Attorney Docket No.	VIAP0029USA

METHOD OF PAYMENT (check all that apply)

 Check Credit card Money Order Other None
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The Director is authorized to: (check all that apply)

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FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1) (\$0.00)			

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
			-20** =	x	=
			-3** =	x	=

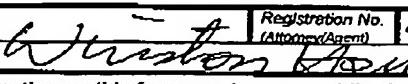
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2) (\$0.00)		

*Or number previously paid, if greater. For Reissues, see above

3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 185	Notice of Appeal	
1402 330	2402 185	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to Institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 685	Petition to revive - unintentional	
1501 1,330	2501 663	Utility issue fee (or reissue)	
1502 480	2502 240	Design Issue fee	
1503 640	2503 320	Plant Issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	
Other fee (specify)			
*Reduced by Basic Filing Fee Paid			
SUBTOTAL (3) (\$0.00)			

(Complete if applicable)

Name (Print/Type)	Winston Hsu	Registration No. (Attorney/Agent)	41,526	Telephone	886289237350
Signature		Date	4/26/2004		

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